

U.S. Serial No.: 10/822,247

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Response to Office Action mailed March 21, 2005

Amendment to the Claims:

1. (Currently amended) An ~~electrical connector~~ assembly for supplying electric power to a printed circuit board, comprising:
a main body having a plurality of terminal mounting portions disposed on an upper surface of the main body;
a plurality of terminals coupled to the plurality of terminal mounting portions, wherein each of the plurality of terminals includes a substantially flat surface for securing wire hardware and having ~~shafts~~ a shaft extending through a slot slots in the main body to a bottom surface of the main body;
a first side flange having a barbed-edge and coupled to a first side surface of the main body; and
a second side flange having a barbed-edge and coupled to a second side surface of the main body, wherein the first and second side flanges are operable to allow the main body to readily disengage from the printed circuit board while giving the assembly a footprint on the printed circuit board of substantially the size of the main body.
2. (Currently amended) The ~~electrical connector~~ assembly of claim 1, wherein a portion of the first and second side flanges are disposed apart from the main body to form a gap between the portion of the first and second side flanges and the main body.
3. (Currently amended) The ~~electrical connector~~ assembly of claim 2, wherein the first and second side flanges are made with a flexible material.

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4. (Currently amended) The ~~electrical connector~~ assembly of claim 3, wherein the electrical connector is adapted for insertion into a mounting surface.

5. (Currently amended) The ~~electrical connector~~ assembly of claim 4, wherein the first and second side flanges are adapted for compressing during insertion into an opening of the mounting surface and to snap back when the barbed-edges of the first and second side flanges clear the mounting surface.

6. (Currently amended) The ~~electrical connector~~ assembly of claim 1, further including a plurality of barrier walls separating the plurality of terminal mounting portions.

7. (Currently amended) The ~~electrical connector~~ assembly of claim 1, wherein the main body is made of non-conductive material.

8. (Currently amended) The ~~electrical connector~~ assembly of claim 1, wherein the plurality of terminals are made with a conductive material.

9. (Currently amended) The ~~electrical connector~~ assembly of claim 1, wherein each of the plurality of terminals includes an opening for receiving a wire connection.

10. (Currently amended) The ~~electrical connector~~ assembly of claim 1, wherein the shafts of the plurality of terminals each include teeth to lock into the slots in the main body.

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11. (Currently amended) The ~~electrical connector~~ assembly of claim 1, further including a cover assembly disposed over a portion of the main body.

12. (Currently amended) The ~~electrical connector~~ assembly of claim 1, wherein each of the plurality of terminal mounting portions includes an opening adapted for receiving securing hardware.

13. (Currently amended) The ~~electrical connector~~ assembly of claim 1, wherein the electrical connector is mounted to a power supply.

14. (Currently amended) An ~~electrical connector~~ assembly for supplying electric power to a printed circuit board, comprising:

a main body having a terminal mounting portion disposed on a first surface of the main body;

a terminal coupled to the terminal mounting portion, wherein the terminal includes a substantially flat surface for securing wire hardware and a shaft extending through a slot in the main body to a bottom surface of the main body; and

a first flange having a ridge portion and coupled to a second surface of the main body, wherein the first flange is operable to allow the main body to readily disengage from the printed circuit board while giving the assembly a footprint on the printed circuit board of substantially the size of the main body.

15. (Currently amended) The ~~electrical connector~~ assembly of claim 14, further including a second flange having a ridge

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portion and coupled to a third surface of the main body.

16. (Canceled)

17. (Currently amended) The ~~electrical connector~~ assembly of claim 14, wherein a portion of the first flange is disposed apart from the main body to form a gap between the portion of the first flange and the main body.

18. (Currently amended) The ~~electrical connector~~ assembly of claim 14, wherein the first flange is made with a flexible material.

19. (Currently amended) The ~~electrical connector~~ assembly of claim 14, wherein the electrical connector is adapted for insertion into a mounting surface.

20. (Currently amended) The ~~electrical connector~~ assembly of claim 19, wherein the first flange is adapted for compressing during insertion into an opening of the mounting surface and to snap back when the ~~barbed edge~~ ridge portion of the first flange clears the mounting surface.

21. (Currently amended) The ~~electrical connector~~ assembly of claim 14, further including a barrier wall isolating the terminal mounting portion.

22. (Currently amended) The ~~electrical connector~~ assembly of claim 14, further including a cover assembly disposed over a portion of the main body.

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23. (Currently amended) The ~~electrical connector~~ assembly of claim 14, wherein the electrical connector is mounted to an electronic assembly.

24. (Currently amended) The ~~electrical connector~~ assembly of claim 23, wherein the electronic assembly is a power supply.

25. (Currently amended) An assembly mounted on a printed circuit board for connecting to electrical conductors, comprising:

a non-conductive body having a terminal mounting portion disposed on a first surface of the body;

a terminal coupled to the terminal mounting portion, wherein the terminal includes a substantially flat surface for securing wire hardware and a shaft extending through a slot in the body to a bottom surface of the body; and

a first clip coupled to a second surface of the body, wherein the first clip is compressible for mounting on the printed circuit board while giving the assembly a footprint on the printed circuit board of substantially the size of the body.

26. (Original) The assembly of claim 25, further including a second clip coupled to a third surface of the body, wherein the second clip is compressible for mounting.

27. (Original) The assembly of claim 25, further including a terminal coupled to the terminal mounting portion and having a shaft extending through a slot in the body to a bottom surface of the body.

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28. (Original) The assembly of claim 25, wherein a portion of the first clip is disposed apart from the body to form a gap between the portion of the first clip and the body.

29. (Original) The assembly of claim 25, further including a barrier wall isolating the terminal mounting portion.

30-34. (Canceled)

35. (Currently amended) A power supply mounted on a printed circuit board, comprising:

a power converter circuit; and

an electrical connector coupled to the power converter circuit, the electrical connector including:

(a) a main body having a terminal mounting portion disposed on a first surface of the main body,

(b) a terminal coupled to the terminal mounting portion, wherein the terminal includes a substantially flat surface for securing wire hardware and a shaft extending through a slot in the main body to a bottom surface of the main body, and

(c) a first flange having a ridge portion and coupled to a second surface of the main body, wherein the first flange is operable to allow the main body to readily disengage from the printed circuit board while giving the assembly a footprint on the printed circuit board of substantially the size of the main body.

36. (Original) The power supply of claim 35, further including a second flange having a ridge portion and coupled to a third surface of the main body.